

Claims

1. A selective one-way wrench comprising:
 - an annular head defining a first space, a second space communicated with the first space and an aperture communicated with the second space;
 - a gear rotationally put in the first space, the gear including a toothed face;
 - a pawl put in the second space, the pawl including a toothed side engaged with the toothed face of the gear and two rods formed on a top;
 - a transmission rotationally put in the second space, the transmission including three protrusions selective one of which is put between the rods of the pawl so that the transmission can move the pawl; and
 - a switch put into the second space through the aperture for connection with the transmission.
2. The selective one-way wrench according to claim 1 wherein the switch includes a lever that is operable for the rotation thereof.
3. The selective one-way wrench according to claim 1 wherein the switch includes a shaft extending into the second space through the aperture for connection with the transmission.
4. The selective one-way wrench according to claim 3 wherein the switch further includes a ridge extending from the shaft, and the transmission defines a recess for receiving the ridge.
5. The selective one-way wrench according to claim 1 including a detent arranged between the wall of the second space and the pawl, wherein the pawl defines three recesses selective one of which

1 receives the detent so as to keep the pawl in position relative to the
2 detent.

3 6. The selective one-way wrench according to claim 5 wherein the
4 detent is a spring-biased detent.

5 7. The selective one-way wrench according to claim 1 including a
6 C-ring, wherein the switch defines an annular groove in an external
7 side for receiving an internal edge of the C-ring, and the annular
8 head defines an annular groove in a wall of the aperture for
9 receiving an external edge of the C-ring.

10 8. The selective one-way wrench according to claim 1 wherein the
11 gear is an annular gear.

12 9. The selective one-way wrench according to claim 1 wherein the
13 gear includes an insert for insertion in and rotation of a socket.

14 10. The selective one-way wrench according to claim 1 including a
15 handle projecting from the annular head.

16 11. A selective one-way wrench comprising:

17 the annular head defining a first space, a second space
18 communicated with the first space and an aperture communicated
19 with the second space;

20 a gear rotationally put in the first space, the gear including a toothed
21 face;

22 a pawl put in the second space, the pawl including a toothed side
23 engaged with the toothed face of the gear and three protrusions
24 formed on a side;

25 a transmission put rotationally in the second space, the transmission
26 including two rods for restricting selective one of the protrusions of

1 the pawl so that the transmission can move the pawl; and
2 a switch put into the second space through the aperture for
3 connection with the transmissions.

4 12. The selective one-way wrench according to claim 11 wherein the
5 switch includes a lever that is operable for the rotation thereof.

6 13. The selective one-way wrench according to claim 11 wherein
7 the switch includes a shaft extending into the second space through
8 the aperture for connection with the transmission.

9 14. The selective one-way wrench according to claim 13 wherein
10 the switch further includes a ridge extending from the shaft, and the
11 transmission defines a recess for receiving the ridge.

12 15. The selective one-way wrench according to claim 11 including a
13 detent arranged between the wall of the second space and the pawl,
14 wherein the pawl defines three recesses selective one of which
15 receives the detent so as to keep the pawl in position relative to the
16 detent.

17 16. The selective one-way wrench according to claim 15 wherein the
18 detent is a spring-biased detent.

19 17. The selective one-way wrench according to claim 11 including a
20 C-ring, wherein the switch defines an annular groove in an external
21 side for receiving an internal edge of the C-ring, and the annular
22 head defines an annular groove in a wall of the aperture for
23 receiving an external edge of the C-ring.

24 18. The selective one-way wrench according to claim 11 wherein the
25 gear is an annular gear.

26 19. The selective one-way wrench according to claim 11 wherein the

1 gear includes an insert for insertion in and rotation of a socket.
2 20. The selective one-way wrench according to claim 11 including a
3 handle projecting from the annular head.
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